

Energy Transfer Project

Objective: Given the opportunity, each student will research one particular organism and provide a detailed description of that organism's niche. The student will then develop one example of a food chain that the organism would exist in, and one example of a food web. The food chain may become part of the food web.

Project Details:

- All information should be organized into a colorful and neat poster board presentation.
- Information about chosen organism's niche should include:
 - Common and scientific name
 - Picture with caption
 - o Detailed information about its natural habitat
 - Common diet: what it eats
 - Common predators: what eats it
 - Other information could include
 - How big the adult form can be
 - How often it reproduces and how many offspring it has per reproductive cycle
 - How much it eats, or how much it needs to eat daily
- > Food chain must contain no fewer than four organisms
- > Food web must contain no fewer than **ten** organisms
- > Poster must include pictures and names of each organism included.
- Include a short paragraph or a couple sentences describing the food chain, and a short paragraph describing the food web. Paragraphs should be located near the item they are explaining on the poster.
- > Poster must include a Works Cited page glued or stapled to the back.
- > Back of poster must be labeled with student's name, class period, and date.

How to insert a picture in WORD:

- 1. Click on [Insert] in top menu of WORD.
- 2. Click on the [Picture] icon in the "illustrations" section.
- 3. Select a picture from a saved file. You must save a picture before you insert it into your WORD document!
- 4. You can save a picture by right clicking on the picture, selecting [Save As] and saving it to your P:\ drive.

How to document a reference from the internet:

Name of Author or Group. "Title of Article" *Title of Entire Webpage*. Inverted Date of Publication. Inverted Date of Access. <URL>.

Example:

Claire, L. "The Pampas" *The Pampas*. 24 Aug. 2002. 25 Mar. 2008. <<u>http://www.blueplanetbiomes.org/pampas.htm</u>>.

Grading Rubric for Energy Transfer Project

Criteria	Unsatisfactory	Satisfactory	Above	Excellent
	(0 points)	(1 point)	Average	(3 points)
			(2 points)	
Colorful	Project	Project	Project	Project contains
Presentation	contains no	contains at	contains at	at least three
	color at all	least one color	least two colors	colors
Neatness	Project has	Project has	Project has two	Project has one
	more than	three or fewer	or fewer	or no uneven
	three uneven			margins, glue
	margins, glue globs or other	margins, glue globs or other	margins, glue globs or other	globs or other messy items
	messy items	messy items	messy items	messy items
Common Name	Project missing		Project missing	Project contains
and Scientific	common and		one or the	both names
Name	scientific name		other name	
Picture with	Project missing		Project missing	Project contains
Caption	picture with		either picture or	both picture of
	caption		caption	organism and
		D : (D : () : (caption
Natural Habitat	Project missing	Project	Project provide	Project provides
	information about	provides vague description of	detailed description of	all important information
	organism's	habitat with	habitat with	about natural
	natural habitat	important info	important info	habitat with
		missing	missing	great attention
		5	5	to detail
Diet	Info about diet	Info vague and	Info present	You could eat
	missing	unclear	and slightly	dinner with this
			detailed but	organism and
			reader unsure	you'd know
			of exact type of	exactly what
			diet	was on the
Predators	Predators not	Incomplete list	List of	menu List of predators
	mentioned in	of predators	predators	present with
	project	present with no	present with no	description of
	. ,	description of	description of	predator/prey
		relationship	relationship	relationship
Food Chain	Example food	Example of	Example of	Example of food
	chain not	food chain	food chain	chain contains
	present	contains fewer	contains fewer	four organisms
		than four	than four	and is labeled
		organisms and not labeled	organisms or is not labeled	
L				

Food Chain	Dorograph	Dorograph	Dorograph	Dorograph
Food Chain	Paragraph	Paragraph	Paragraph	Paragraph
Paragraph	missing	vague or fewer	vague with	detailed with
		than three	three or more	more than three
		sentences	sentences	sentences
Food Web	Food web	Food web	Food web	Food web
	missing	present with	present with	present with ten
		fewer than six	fewer than	or more
		organisms	eight	organisms and
		and/or not	organisms and	labeled
		labeled	labeled	
Food Web	Paragraph	Paragraph	Paragraph	Paragraph
Paragraph	missing	vague or fewer	vague with	detailed with
		than three	three or more	more than three
		sentences	sentences	sentences
Pictures of	Pictures of	Most pictures	Some of	All pictures of
organisms	organisms	of organisms	pictures of	organisms are
	missing	missing (more	organisms	present
		than eight)	missing (fewer	
		C ,	than four)	
Names of	Names of	Most names of	Some of	All names of
organisms	organisms	organisms	names of	organisms
	missing	missing (more	organisms	present
		than eight)	missing (fewer	
		Ŭ,	than four)	
Works Cited	Works Cited	Works Cited	Works Cited	Works Cited
Page	page missing	page present	page complete	page complete
	Will result in a	but incomplete	but incorrect	and correct
	ZERO	or incorrect		
Student Info	Student info			Student info
	missing			present
Spelling/	More than five	3-4 spelling/	1-2 spelling/	0 spelling/
Grammar	spelling/	grammar errors	grammar errors	grammar errors
	grammar errors			
Punctuality	Project not			Project turned in
,	turned in on			on time
	time			
		1	1	

Final Score:

Final Score will be multiplied by two for a score out of 100 points.